

Terminal adapter - HC-B 24-A-DT-PER-F



1648490

<https://www.phoenixcontact.com/pc/products/1648490>

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HEAVYCON terminal adapter socket insert, B24 series, 24-pos., for the right side of the control cabinet, push-in connection



Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial Data

Item number	1648490
Packing unit	5 pc
Minimum order quantity	1 pc
Product Key	BF7ADC
Catalog Page	Page 549 (C-2-2019)
GTIN	4046356092210
Weight per Piece (including packing)	176 g
Weight per Piece (excluding packing)	176 g
Customs tariff number	85366990
Country of origin	CN

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Technical Data

Notes

General	For HEAVYCON-ADVANCE mounting flange and HEAVYCON panel mounting base of B24 type
General	Connectors may be operated only when there is no load/voltage.

Product properties

Type	B24
Product type	Terminal adapter
Number of positions	24
Connection profile	24+PE
Type	for the right side of the control cabinet
Series	HC-B

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
SCCR	5 kA (UL 2237)

Connection data

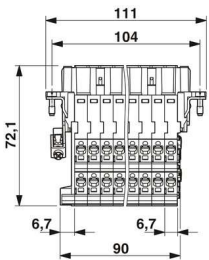
Connection technology

Connection technology	Push-in connection
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Conductor connection

Conductor cross section	0.5 mm ² ... 2.5 mm ²
Connection cross section AWG	22 ... 12
Stripping length of the individual wire	10 mm (13 mm if ferrules are used)

Dimensions

Dimensional drawing	
Width	34 mm

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Height	72.1 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

Material specifications

Color	light grey
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Cable / line

Stripping length of the individual wire	10 mm (13 mm if ferrules are used)
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 125 °C

Standards and regulations

Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Tests	DIN EN 61984
	DIN EN 60664
	IEC 60352

Testing

Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
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Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	Connectors may be plugged in only when there is no load/voltage.

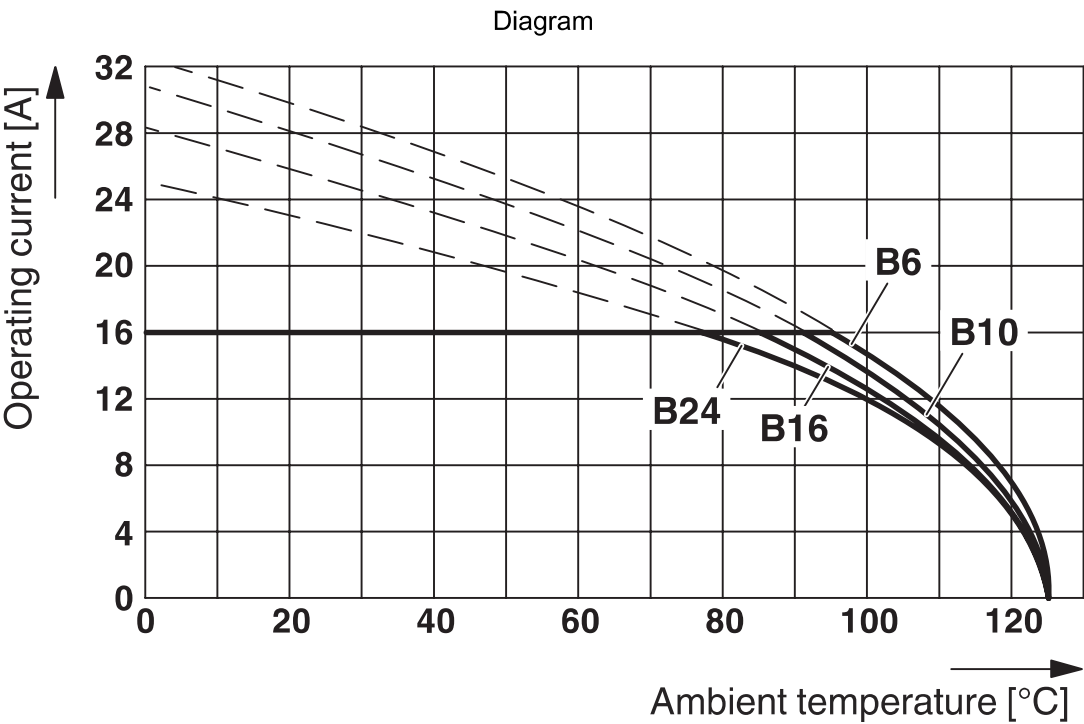
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Drawings



Derating diagram

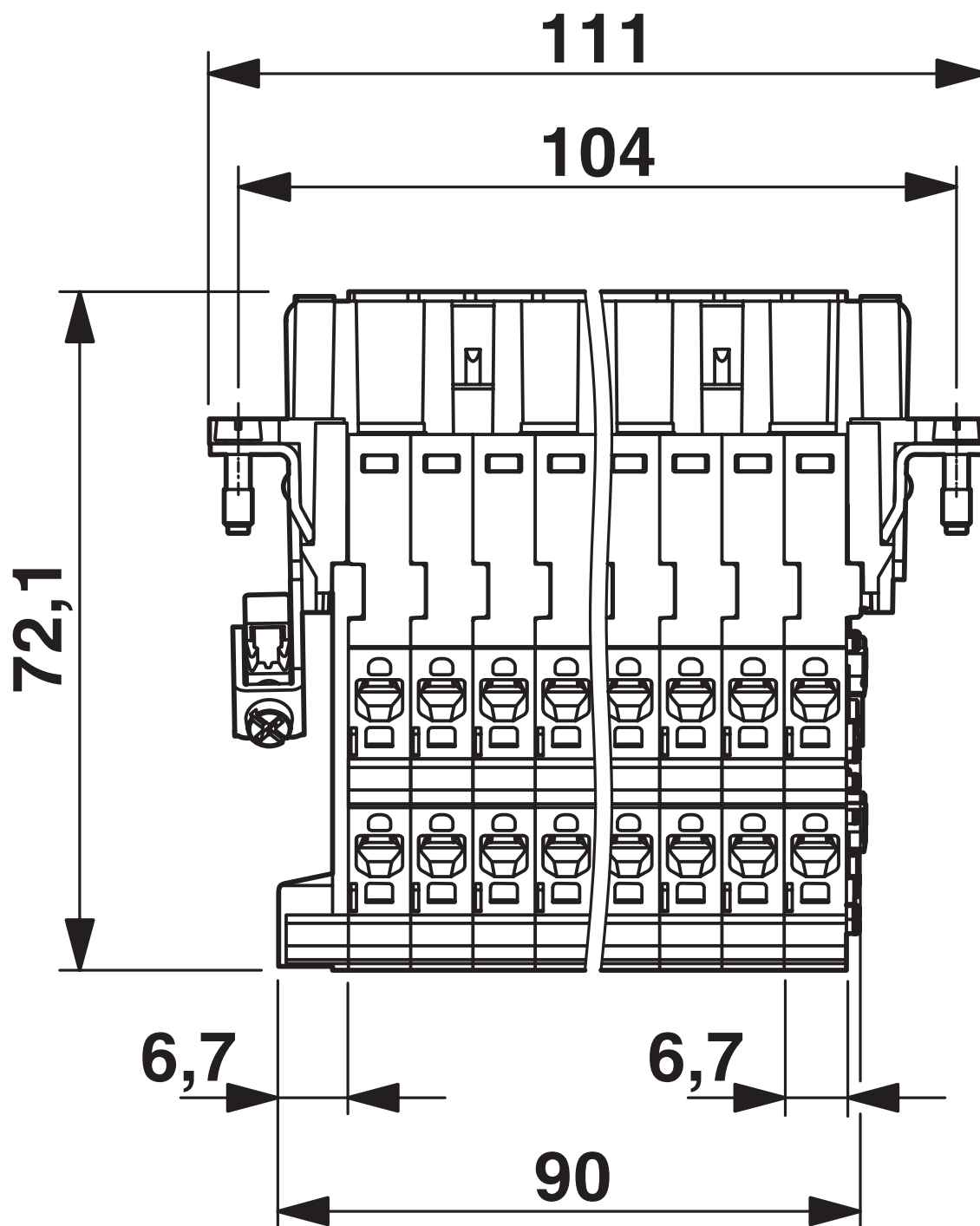
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Dimensional drawing



Dimensional drawing

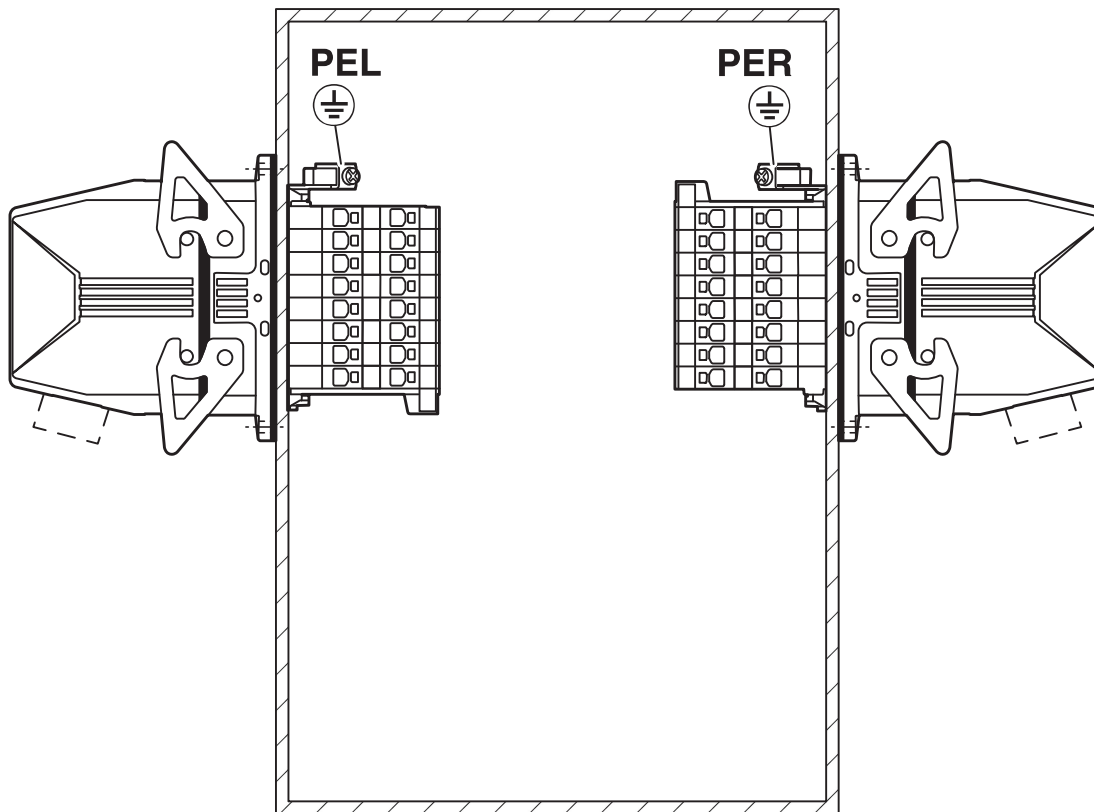
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Application drawing



Mounting position PE connection left/right (PEL/PER)

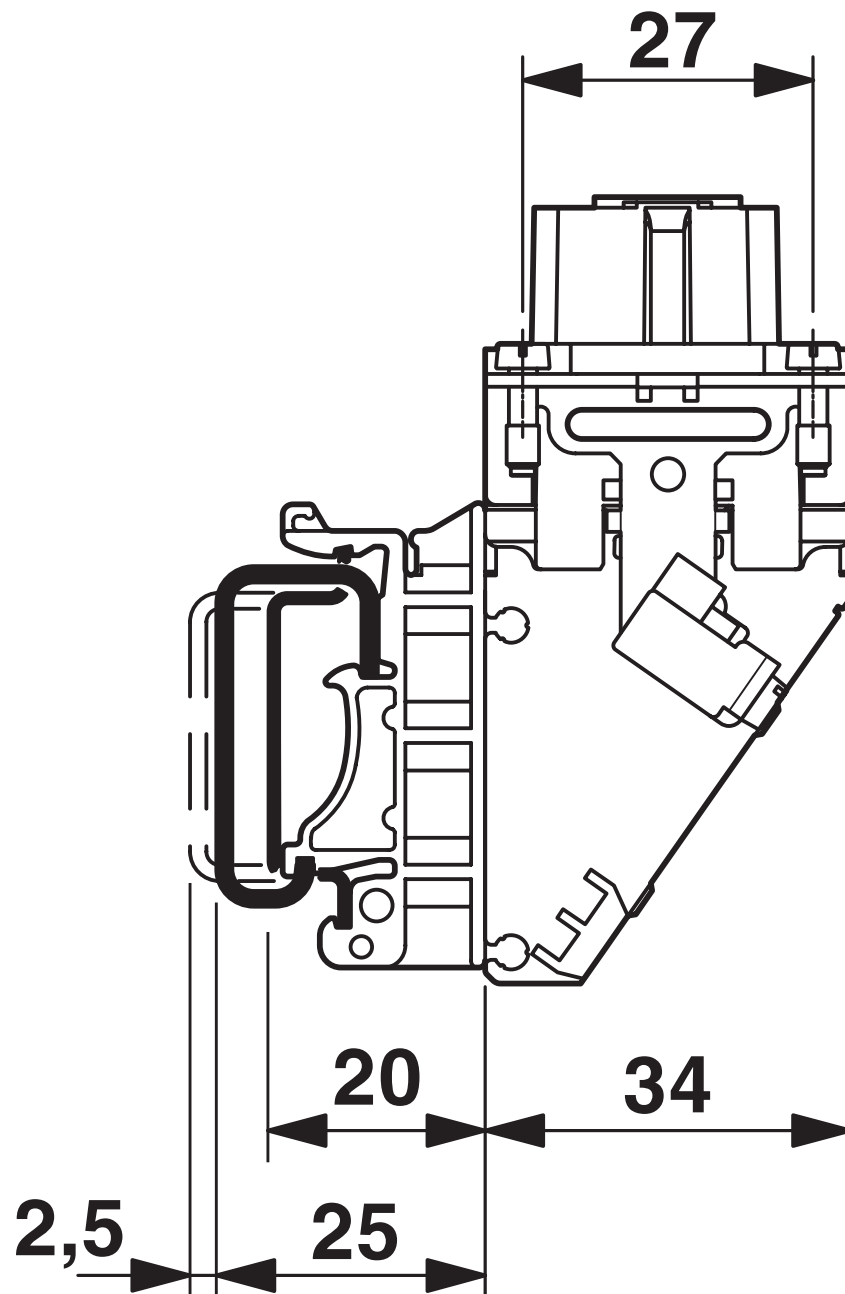
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Dimensional drawing



Dimensional drawing, side view


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Approvals



CSA
Approval ID: 013631_6233_01




cUL Recognized
Approval ID: FILE E 118976



UL Recognized
Approval ID: FILE E 118976



EAC
Approval ID: RU C-DE.AI30.B.01102



EAC
Approval ID: RU C-DE.AI30.B.01102


	cULus Recognized Approval ID: E468743			
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	600 V	13 A	- 14	-




UL Recognized
Approval ID: FILE E 118976



CSA
Approval ID: 013631_6233_01



cUL Recognized
Approval ID: FILE E 118976



EAC
Approval ID: RU C-DE.BL08.B.00511

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Classifications

ECLASS

ECLASS-9.0	27440222
ECLASS-10.0.1	27440222
ECLASS-11.0	27440222

ETIM

ETIM 8.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"